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(54) REMOTE CONTROLLER

(57) Abstract:

PURPOSE: To control an on-vehicle camera without interrupting the free movement of the hands and the head by performing the direction control of the on-vehicle camera while interlocking the movement of eyeballs of an operator.

CONSTITUTION: An output signal of up-and-down/right-and left eyeball movement of an eyeball movement detector 7 is led through a cable 9 to the transmission part inside the controller. In the transmission part, up-and-down/right-and-left output units 11 and 12 generate signals converting the up-and-down/right-and-left output signals of the detector 7 into the prescribed voltage signals respectively. These signals pass through filters 13, 14 respectively, and the average values in the prescribed time (for example, 0.5 to 1.0 seconds) are derived. According to the derived signals, the controlled variable against a TV camera 3 is operated in an arithmetic part 15, and the radio signals modulated through a transmitter 16 is generated by the arithmetic result to be transmitted through a transmission antenna 17. On an unmanned vehicle side, a reception antenna 21 receives this, and a motor 26 for pan and a motor 27 for tilt are driven by the output of camera mount driving motor amplifiers 24, 23 in the up-and-down/right-and-left direction in a camera part, and the TV camera 3 is turned according to the signal from the controller.